Executive Summary

West/Annexes/Basewide Operable Unit (WABOU)
DP039 Interim Groundwater Remedial Design/Remedial Action Work Plan

Introduction

The purpose of this Interim Groundwater Remedial Design/Remedial Action Work Plan is to describe the tasks for the design and construction of an interim groundwater remedy at the base battery and electric shop (DP039). This remedy is in accordance with the *Groundwater Interim Record of Decision for the WABOU* (WABOU Groundwater IROD; Travis AFB, 1998) and the *Travis AFB Remedial Action Strategic Plan* (Radian, 1997).

DP039 consists of Building 755 and a former battery neutralization sump. Lead-acid solutions from battery dismantling were poured into a sink in the battery shop. The pipeline from the sink led to a sump. Solvents from maintenance activities in the shop were also poured into the sink, resulting in solvent-contaminated groundwater beneath the former sump area. The chemicals of concern at DP039 include TCE and several other volatile organic compounds.

Alternatives G5 – Source Area and Groundwater Extraction/Treatment/ Monitored Natural Attenuation and G3 – Containment/Treatment/Discharge are the interim remedial actions selected to address groundwater contamination at DP039.

Alternative G5 is a three-part strategy that starts with a Dual-Phase Extraction (DPE) system to remove the highly concentrated solvent contamination beneath the sump area. The second part consists of the installation of at least one extraction well to reduce the high concentrations of dissolved solvents in the central part of the plume. The last part consists of the testing of Monitored Natural Attenuation to determine whether natural processes are capable of preventing the spread of the plume.

Alternative G3 relies on a row of extraction wells around the plume to prevent its further expansion.

Preliminary Remedial Design

There are four primary components of the site preliminary design:

- Extraction – Two DPE wells will remove contaminated vapor and groundwater, and up to three extraction wells will remove contaminated groundwater from the subsurface.
- Conveyance – After extraction, pipelines will transport the contaminated vapor and groundwater to the West Treatment and Transfer Plant (WTTP). The WTTP will transfer the water to the Central Groundwater Treatment Plant (CGWTP).
- Treatment – Contaminated vapor will be treated at the WTTP using granular activated carbon. Contaminants will be removed from the groundwater at the CGWTP.
- Discharge – Treated vapor will be discharged into the atmosphere. Treated groundwater will be analyzed to ensure that it meets the discharge limits specified in the WABOU Groundwater IROD. The CGWTP will discharge the water into the storm sewer system or will use it for irrigation purposes.

Groundwater conveyance and treatment and the discharge/reuse of treated groundwater are addressed in the *SS016 Interim Groundwater Remedial Design/Remedial Action Work Plan* (Radian, 1998).